



1459 Washington St.
Muscatine, IA 52761-5040
(563) 263-8933
Fax (563) 263-2127

Public Works

City Transit
263-8152

MEMORANDUM

Equipment Maintenance
Roadway Maintenance
Collection & Drainage
Building & Grounds
Engineering

To: Randy Hill, Public Works Director
FROM: Jim Edgmond, City Engineer
DATE: June 26, 2015
RE: Musser to Wiggins Road Trail, survey proposal for new route

INTRODUCTION:

The ROW for this trail presented multiple problems. One of the last problems in the trail ROW was getting from 33rd Street to 41st Street. A land owner in this area recently has agreed to a different route that will make the trail slightly shorter and allow the trail to be a dedicated trail down to the Deep Lakes Park.

BACKGROUND:

This land owner agreement allows the trail to be on the common property line between two properties. However, to make sure that this condition of the agreement is met the owner requested the property line be surveyed. This proposal allows for the survey and remonumentation, if needed, of the property line. This property line (s) has also become over grown with trees and brush and a significant effort may be needed to clear brush and trees to do this survey. The proposal is a not to exceed amount of \$20,000.00. It also includes fee to convert this survey into the easement acquisition plat and to provide Cadd base drawings for the trail design documents.

RECOMMENDATION/RATIONALE:

Recommend city council approve this proposal for survey and easement plat for the Musser to Wiggins Road trail alignment.

BACKUP INFORMATION:

1. Concept Trail alignment
2. M&W Proposal

"I remember Muscatine for its sunsets. I have never seen any
on either side of the ocean that equaled them" — Mark Twain



**Martin & Whitacre
Surveyors & Engineers, Inc.**

Gary Whitacre, President
Matt Krause, Vice-President
Seth Whitacre, Secretary

June 24, 2015

Jim Edgmont, P.E.
City Engineer
City of Muscatine

Re: 2015 City Trail Professional Services

Dear Jim,

Based upon our conversation we understand that the City would like to develop a recreational trail from Dick Drake Way to 57th Street. We understand the alignment to be located on City, private and county property. We understand the general scope of professional services to include: boundary survey, topographic survey, base mapping and preliminary trail design. We understand that the City will provide CAD services and professional engineering work to develop plans for bidding, approval, cost estimation and construction.

We propose to provide the following services in phases:

PHASE 1-A: Survey of Dick Drake way to 33rd Street

- Topographic Survey parallel to Dick Drake way from trail tie in point west of CP Rail tracks east to MPW well access point
 - North edge of road, edge of shoulder, ditch bottom(s) & edge of field
 - Iowa One Call and utilities within road ditch
- Survey existing property line between [REDACTED] and [REDACTED] investments
 - Provide lathe at existing property markers
 - Set missing property markers
- Limited topographic survey of trail alignment
 - Top of field, top of embankment & water line @ 50' intervals
 - Other major items to be marked by City
 - 33rd Street Crossing 25' either side of trail crossing point
 - Iowa One Call and utilities near proposed crossing
- Approximate segment length: 2,900 L.F.

PHASE 1-B: Survey of 33rd Street to Deep Lakes Park entrance

- Survey existing property line between [REDACTED] and [REDACTED] investments
 - Provide lathe at existing property markers
 - Set missing property markers
- Limited topographic survey of trail alignment
 - Trees, edge of cultivation, irrigation equipment @ 50' intervals

1508 Bidwell Road P.O. Box 413 Muscatine, Iowa 52761
Phone: 563/263-7691 Fax: 563/263-0048

e-mail: info@martin-whitacre.com
web site: <http://www.martin-whitacre.com>

- Topographic Survey parallel to Stewart Road from ~~NAH~~ Property to 41st Street
 - West edge of road, edge of shoulder, ditch bottom(s) & edge of field @ 100' intervals
 - Iowa One Call, driveways and utilities within road ditch
- Topographic Survey parallel to 41st Street from 50' west of intersection of Stewart Road to 700' east
 - South edge of road, edge of shoulder, ditch bottom(s) & edge of field @ 100' intervals
 - Iowa One Call, driveways and utilities within road ditch
- Approximate segment length: 4,500 L.F.

Phase 1-C: Deep Lakes Park to 57th Street

- City to provide approximate alignment stakes
- Topographic Survey of proposed alignment corridor
 - 25' either side of trail @ 100' and critical locations defined by City in field
 - Grades, edge of water, edge of vegetation
- Approximate segment length: 6,800 L.F.
- Includes site walk through with City staff

PHASE 2A: Base Map Preparation

- Provide a base map utilizing MAGIC aerial imagery, LiDAR contours, new survey information to City for preferred route determination
- Field data will supplement LiDAR data to create an existing surface
- Meet with City staff to discuss preliminary design concepts

PHASE 2B: Preliminary Engineering Design

- Provide suggested trail alignment
- Provide suggested trail profile
- Apply Civil 3D corridor and extract draft quality cross sections for analysis
- Presentation of preliminary design and development of design questions for City
- Includes no sheet production, quantity takeoff, DOT tables etc
 - Work to be provided by City staff
 - M&W will provide limited CAD assistance to City staff via phone

In order to expedite our work and maintain project budget, we request that the City make the following information available to us:

- Recent MAGIC aerial imagery
- City Base Mapping with streets and buildings
- City storm and sewer mapping
- MPW utility mapping

Fees:

PHASE 1-A:	\$5,000
PHASE 1-B:	\$6,000
PHASE 1-C:	\$3,000*
PHASE 2-A:	\$3,000
PHASE 2-B:	\$3,000

Figures are Not To Exceed, unless project scope is changed or additional work is requested.

Phase 1-C work is an estimate of 2 days of field work. Selected route will greatly affect the amount of work needed.

We anticipate meeting with City staff to discuss the project. We assume that presentations to the public and City Council will be provided by City staff.

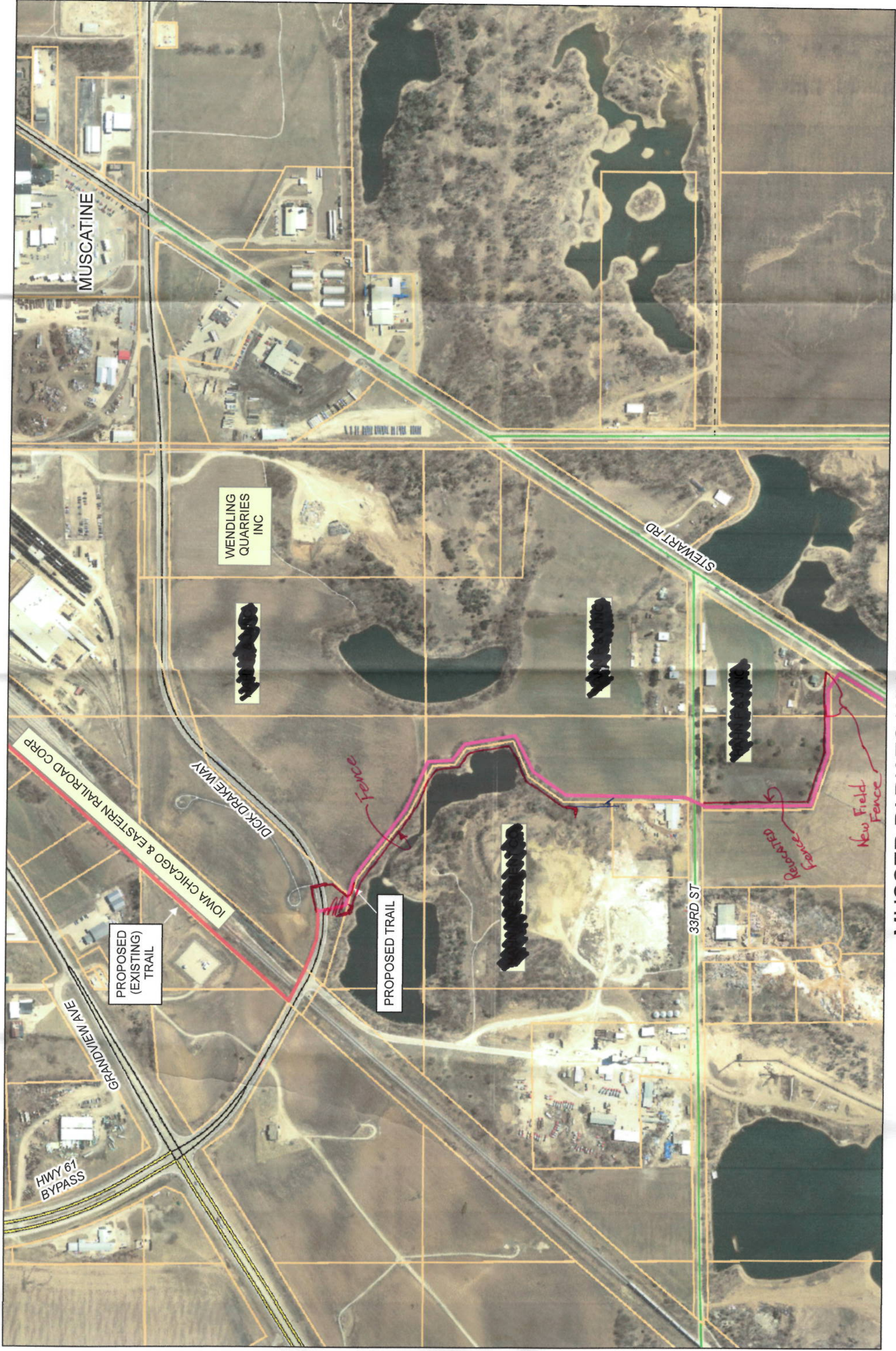
We appreciate the opportunity to provide a proposal for this project. Please contact us with any questions or comments.

Respectfully submitted;

MARTIN & WHITACRE SURVEYORS & ENGINEERS, INC.



Adam Shutt, P.E., LEED AP BD+C
ashutt@martin-whitacre.com



MUSSEY PARK TO WIGGINS ROAD TRAIL